

IN THE SPECIFICATION:

Please replace the paragraph beginning on page 8, line 29, with the following rewritten paragraph:

Pressure sensor 10, which is located in hydraulic unit 9, which is filled with hydraulic fluid, is connected to a display and/or driving device 1 by a computer integrated into the control unit 16, turning the device off on reaching or exceeding a definable limit value. This reliably limits the maximum pressure head in the entire system in the event of a blockade of hydraulic unit 9 or a defect in the valves or clamps of the head piece, for example.

IN THE CLAIMS:

Please cancel claims 31 and 32 without prejudice.

Please amend claims 20 and 35 as follows:

20. (amended) A pumping device for delivering and metering medical fluids comprising:

- a. a membrane unit having a membrane bordering a first chamber;
- b. a pumping unit connected to the first chamber by a hydraulic unit

containing hydraulic fluid that is in fluid connection with the first chamber;

c. a hydraulic sensor in fluid connection with the hydraulic unit, the hydraulic sensor adapted and arranged for measuring the pressure of the fluid within the hydraulic unit;

d. e. a measuring device for measuring the pumping unit output; and

e. f. a control unit connected to the measuring device, and the pumping unit, and the hydraulic sensor; wherein the control unit is adapted and arranged for controlling the pumping unit output based on the measurements of the measuring